

AMENDMENTS TO THE CLAIMS

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1. (Original) A composition comprising
an immunostimulatory nucleic acid molecule comprising the nucleotide sequence of SEQ
ID NO:1.
2. (Original) The composition of claim 1, wherein the immunostimulatory nucleic acid
molecule consists of the nucleotide sequence of SEQ ID NO:1.
3. (Original) The composition of claim 1, further comprising an antigen.
4. (Original) The composition of claim 3, wherein the antigen is selected from the group
consisting of a microbial antigen, a cancer antigen, and an allergen.
5. (Original) The composition of claim 4, wherein the microbial antigen is selected from the
group consisting of a bacterial antigen, a viral antigen, a fungal antigen and a parasitic antigen.
6. (Original) The composition of claim 3, wherein the antigen is encoded by a nucleic acid
vector.
7. (Original) The composition of claim 3, wherein the nucleic acid vector is separate from
the immunostimulatory nucleic acid.
8. (Original) The composition of claim 3, wherein the antigen is a peptide antigen.
9. (Original) The composition of claim 1, further comprising an adjuvant.

10. (Original) The composition of claim 9, wherein the adjuvant is a mucosal adjuvant.
11. (Original) The composition of claim 1, further comprising a cytokine.
12. (Currently Amended) The composition of claim 1, further comprising a therapeutic agent selected from the group consisting of an anti-microbial agent, an anti-cancer agent, and an allergy/asthma medicament.
13. (Original) The composition of claim 12, wherein the anti-microbial agent is selected from the group consisting of an anti-bacterial agent, an anti-viral agent, an anti-fungal agent, and an anti-parasite agent.
14. (Withdrawn) The composition of claim 12, wherein the anti-cancer agent is selected from the group consisting of a chemotherapeutic agent, a cancer vaccine, and an immunotherapeutic agent.
15. (Withdrawn) The composition of claim 12, wherein the allergy/asthma medicament is selected from the group consisting of PDE-4 inhibitor, bronchodilator/beta-2 agonist, K⁺ channel opener, VLA-4 antagonist, neurokin antagonist, TXA₂ synthesis inhibitor, xanthanine, arachidonic acid antagonist, 5 lipoxygenase inhibitor, thromboxin A₂ receptor antagonist, thromboxane A₂ antagonist, inhibitor of 5-lipox activation protein, and protease inhibitor.
16. (Previously Presented) The composition of claim 1, wherein the immunostimulatory nucleic acid has a nucleotide backbone which includes at least one backbone modification.
17. (Previously Presented) The composition of claim 16, wherein the backbone modification is a phosphorothioate modification.

18. (Previously Presented) The composition of claim 16, wherein the nucleotide backbone is chimeric.
19. (Previously Presented) The composition of claim 16, wherein the nucleotide backbone is entirely modified.
20. (Previously Presented) The composition of claim 1, further comprising a pharmaceutically acceptable carrier.
21. (Canceled)
22. (Previously Presented) The composition of claim 1, wherein the immunostimulatory nucleic acid includes at least four CpG motifs.
- 23.-26. (Canceled)
27. (Previously Presented) The composition of claim 1, wherein the immunostimulatory nucleic acid is formulated as a nutritional supplement.
28. (Previously Presented) The composition of claim 27, wherein the nutritional supplement is formulated as a capsule, a pill, or a sublingual tablet.
29. (Previously Presented) The composition of claim 1, wherein the immunostimulatory nucleic acid is formulated for local administration.
30. (Previously Presented) The composition of claim 1, wherein the immunostimulatory nucleic acid is formulated for parenteral administration.

31. (Previously Presented) The composition of claim 1, wherein the immunostimulatory nucleic acid is formulated in a sustained release device.

32. (Previously Presented) The composition of claim 1, wherein the immunostimulatory nucleic acid is formulated for delivery to a mucosal surface.

33.-42. (Canceled)

43. (Previously Presented) The composition of claim 31, wherein the sustained release device is a microparticle.

44. (Canceled)

45. (Withdrawn and Previously Presented) A method for stimulating an immune response in a subject in need thereof comprising
administering to a subject an immunostimulatory nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:1, in an amount effective to stimulate an immune response.

46. (Withdrawn and Previously Presented) The method of claim 45, wherein the subject has or is at risk of developing an infection.

47.-49. (Canceled)

50. (Withdrawn and Previously Presented) The method of claim 45, wherein the subject has or is at risk of developing allergy.

51. (Withdrawn and Previously Presented) The method of claim 45, wherein the subject has or is at risk of developing asthma.

52. (Withdrawn and Previously Presented) The method of claim 45, wherein the subject has or is at risk of developing a cancer.

53. (Withdrawn and Previously Presented) The method of claim 45, further comprising administering an antigen to the subject.

54.-56. (Canceled)

57. (Withdrawn and Previously Presented) The method of claim 45, wherein the immune response is an antigen-specific immune response.

58.-62. (Canceled)

63. (Withdrawn and Previously Presented) The method of claim 45, further comprising administering to the subject a second therapeutic agent.

64.-69. (Canceled)

70. (Withdrawn and Previously Presented) The method of claim 45, wherein the immunostimulatory nucleic acid has a nucleotide backbone which includes at least one backbone modification.

71. (Withdrawn and Previously Presented) The method of claim 70, wherein the backbone modification is a phosphorothioate modification.

72. (Withdrawn and Previously Presented) The method of claim 70, wherein the nucleotide backbone is chimeric.

73. (Withdrawn and Previously Presented) The method of claim 70, wherein the nucleotide backbone is entirely modified.

74.-75. (Canceled)

76. (Withdrawn and Previously Presented) The method of claim 45, wherein the immunostimulatory nucleic acid is administered orally.

77. (Withdrawn and Previously Presented) The method of claim 45, wherein the immunostimulatory nucleic acid is administered locally.

78. (Withdrawn and Previously Presented) The method of claim 45, wherein the immunostimulatory nucleic acid is administered parenterally.

79. (Withdrawn and Previously Presented) The method of claim 45, wherein the immunostimulatory nucleic acid is administered in a sustained release device.

80. (Withdrawn and Previously Presented) The method of claim 45, wherein the immunostimulatory nucleic acid is administered to a mucosal surface.

81.-83. (Canceled)

84. (Withdrawn and Previously Presented) The method of claim 45, further comprising isolating an immune cell from the subject, contacting the immune cell with an effective amount to activate the immune cell of the immunostimulatory nucleic acid and re-administering the activated immune cell to the subject.

85.-87. (Canceled)

88. (Withdrawn and Previously Presented) The method of claim 45, wherein the subject is a human.

89.-94. (Canceled)

95. (Withdrawn and Previously Presented) The method of claim 45, further comprising administering an antibody specific for a cell surface antigen, and wherein the immune response results in antigen dependent cellular cytotoxicity (ADCC).

96. (Canceled)

97. (Withdrawn and Previously Presented) A method for inducing an innate immune response, comprising administering to the subject an immunostimulatory nucleic acid in an amount effective for activating an innate immune response, wherein the immunostimulatory nucleic acid has a nucleotide sequence comprising SEQ ID NO:1.

98. (Canceled)